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Technical Resources - Media Formulations

Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)
Contains 1,000 mg/L D-glucose, L-glutamine, pyridoxine HCl, and 110 mg/L sodium pyruvate.

Dulbecco's Modified Eagle Media are well suited for supporting the growth of a broad spectrum of mammalian cell lines.

Catalog Number: [11885070](#), [11885084](#), [11885092](#)

COMPONENTS	Molecular Weight	Concentration (mg/L)	Molarity (mM)
Amino Acids			
Glycine	75	30	0.400
L-Arginine hydrochloride	211	84	0.398
L-Cystine 2HCl	313	63	0.201
L-Glutamine	146	584	4.00
L-Histidine hydrochloride-H2O	210	42	0.200
L-Isoleucine	131	105	0.802
L-Leucine	131	105	0.802
L-Lysine hydrochloride	183	146	0.798
L-Methionine	149	30	0.201
L-Phenylalanine	165	66	0.400
L-Serine	105	42	0.400
L-Threonine	119	95	0.798
L-Tryptophan	204	16	0.0784
L-Tyrosine disodium salt dihydrate	261	104	0.398
L-Valine	117	94	0.802
Vitamins			
Choline chloride	140	4	0.0286
D-Calcium pantothenate	477	4	0.00839
Folic Acid	441	4	0.00907
L-Inositol	180	7.2	0.0400
Niacinamide	122	4	0.0328
Pyridoxine hydrochloride	204	4	0.0196
Riboflavin	376	0.4	0.00106
Thiamine hydrochloride	337	4	0.0119
Inorganic Salts			
Calcium Chloride (CaCl2) (anhyd.)	111	200	1.80
Ferric Nitrate (Fe(NO3)3*9H2O)	404	0.1	0.000248
Magnesium Sulfate (MgSO4) (anhyd.)	120	97.67	0.814
Potassium Chloride (KCl)	75	400	5.33
Sodium Bicarbonate (NaHCO3)	84	3700	44.05
Sodium Chloride (NaCl)	58	6400	110.34
Sodium Phosphate monobasic (NaH2PO4-H2O)	138	125	0.906
Other Components			
D-Glucose (Dextrose)	180	1000	5.56
Phenol Red	376.4	15	0.0399
Sodium Pyruvate	110	110	1.000

*Note: Pyridoxine HCl replaces pyridoxal HCl.

Exhibit B

Related Products:

Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)
 Contains 1000 mg/L glucose, 4mM L-glutamine and 110 mg/L sodium pyruvate.

Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (no glucose)
 Without glucose and sodium pyruvate. Contains L-glutamine and pyridoxine HCl.
 Cat No: 11966023

Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)
 Contains 1,000 mg/L D-glucose, L-glutamine, 25mM HEPES buffer, pyridoxine HCl, and 110 mg/L sodium pyruvate.
 Cat No: 12320032

Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (high glucose)
 Contains 1000 mg/L glucose, 4mM L-glutamine, 110 mg/L sodium pyruvate and 25 mM HEPES.

Dulbecco's Modified Eagle Medium (D-MEM) (1X) powder (low glucose)
 Without sodium bicarbonate. Contains 1,000 mg/L D-glucose, L-glutamine, pyridoxine HCl and 110 mg/L sodium pyruvate.
 Cat No: 31600034, 31600083, 31600091

Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (high glucose)
 Contains 1000 mg/L glucose and 110 mg/L sodium pyruvate but no L-glutamine or phenol red.

Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)
 Contains 1,000 mg/L D-glucose, pyridoxine HCl, and 110 mg/L sodium pyruvate. Without L-glutamine and phenol red.
 Cat No: 11054028

Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)
 Contains GLUTAMAX™ (the dipeptide L-Alanyl-L-Glutamine) substituted on a molar equivalent basis for L-glutamine. Contains sodium pyruvate and pyridoxine HCl.
 Cat No: 10567014

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Exhibit B